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ABSTRACT OF THE DISCLOSURE

Disclosed is a pneumatically operated active vibration damping device including an elastic oscillating plate partially define a pressure receiving chamber formed on one side thereof and an oscillating air chamber formed on the other side thereof, wherein the elastic oscillating plate is oscillated due to a periodic change of the air pressure generated in the oscillating air chamber so as to exhibit active vibration damping effect of the device, and wherein at least one of the pressure receiving chamber and the oscillating air chamber undergoes a static pressure change so as to change a spring stiffness of the elastic oscillating plate. Thus, the device is capable of changing its active vibration damping characteristics based on the oscillation of the elastic oscillating plate.

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